SUMMERBREEZE by RICCAR

RSBH-O, RSBH-C, RSBH-SB
RSBHP-O & RSBHP-C
Owner's Manual

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IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

WARNING: The manufacturer cannot accept responsibility for damage caused when the appliance is not used according to the instructions, or for uses other than those for which it was intended.

To reduce the risk of fire, electric shock or injury:

- DO NOT plug the heater into any other cord connected device such as a power strip, surge protector, multiple outlet adapter, grounding adapter, outlet-type air fresheners or extension cords. Plug into a 3-prong, 120V 15 amp or higher grounded circuit receptacle only.
- DO NOT plug the heater into a loose fitting or broken receptacle.
- DO NOT alter the heater's design or you will void the warranty.
- DO NOT block the front or rear of the heater.
- DO NOT place anything directly in front of the heater.
- DO NOT cover the unit as this may block airflow and cause the heater to malfunction.
- DO NOT use the heater outdoors or in construction sites.
- DO NOT force the filter to dry using any alternative methods when performing filter maintenance, doing so could damage the filter.
- DO NOT run the power cord under carpeting.
- DO NOT cover the power cord with throw rugs, runners or similar coverings. Arrange the cord away from traffic areas and where it will not be tripped over.
- DO NOT insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
- DO NOT operate this heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Return heater to an authorized retailer for examination, electrical or mechanical adjustment or repair.
- DO NOT use this heater in areas where gasoline, paint or flammable liquids are used or stored. A heater has hot or arcing parts inside.
- This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces.
- Always unplug this heater when it is not in use. To disconnect the heater, turn controls to off then remove plug from the outlet.
- To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces, like a bed where openings may become blocked.
- Keep combustible materials such as furniture, pillows, bedding, clothes, curtains and paper at least 3 feet from the front of the heater and keep them away from the sides and the rear.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electrical shock or injury to persons.
- Avoid the use of an extension cord because the extension cord may overheat and cause a risk of fire.
- This heater is for use on 120 volt grounded outlets. An adapter should not be used.
- This heater must be located near a socket outlet.
- Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating and unattended.
- This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate the heater where it may fall into a bathtub, shower, swimming pool or other water container.
- Connect to properly grounded outlets only.

SAVE THESE INSTRUCTIONS.

Safety Features

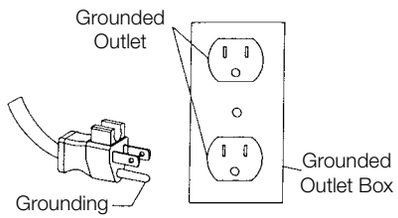
Safety Features

The Riccar SummerBreeze Heater has safeguards to protect the heater from overheating. Here are a few ways the heater warms your home safely:

- Enclosed heating element prevents the heat from creating hot external areas.
- Thermal fuses shut the element off if dangerously high temperatures are reached.
- Tip-over switch shuts off the element if the heater is tilted. The power resets when the heater is returned to operating position.
- Circuit breaker protects against potential electrical safety conditions.

Polarization Instructions

This heater must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for the electric current to reduce the risk of electric shock. This heater is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.



This heater is for use on a 120-volt circuit and has a ground plug (see illustration). Make sure the heater is connected to an outlet having the same configuration as the plug. No adapter should be used with this heater.

WARNING: Improper connection of the equipment-grounding conductor can result in the risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the heater – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Benefits

Energy Savings

- The Riccar SummerBreeze Zone Heater reduces energy usage and cost by allowing you to set your central heating system to a lower temperature and use zone controlled heating to only heat the area you're occupying.
- The Riccar SummerBreeze Zone Heater uses a heating element with a finned design that creates more internal surface area to be heated. As air passes over the element, it is more effective at heating the air.

Ease to Use, Easy to Maintain

- The dial and programmable thermostats are easy to use.
- Minimal maintenance is required. Just vacuum or wash the filter and replace as needed.
- No bulbs to replace.

Comfort

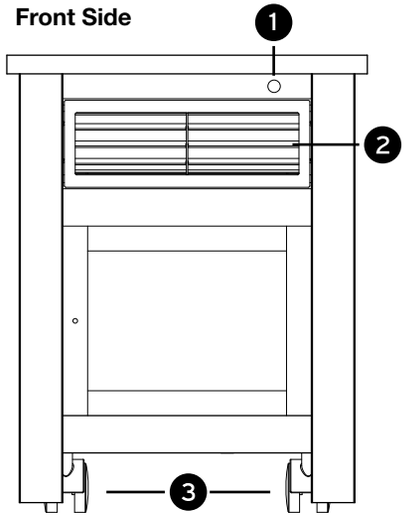
The SummerBreeze Zone Heater by Riccar features a unique design that creates even heat distribution – so your toes are as warm as your nose.

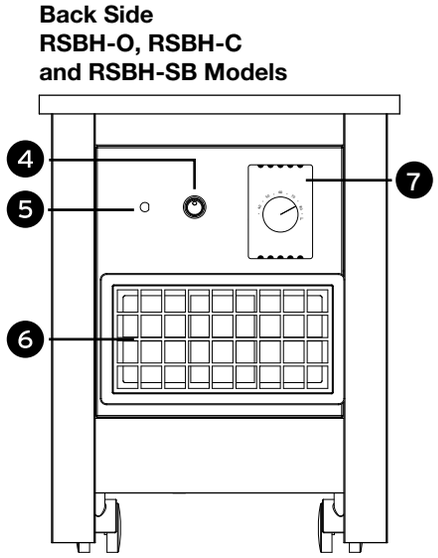
- High airflow allows uniform air distribution – something space heaters and radiant heaters can't do.
- Quiet operation adds to your room's ambience.

Beauty

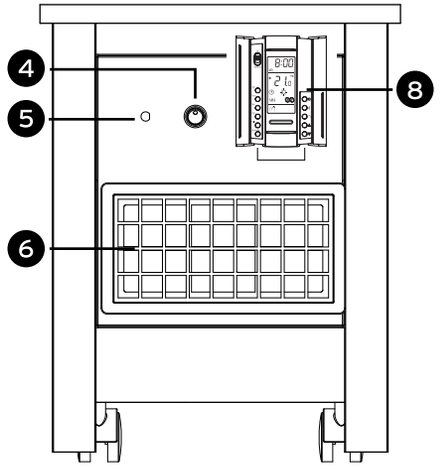
The Riccar SummerBreeze Zone Heater isn't just functional, it's also beautiful. The rich wood finish blends in with your décor and complements your room.

- Made with a solid wood top and legs and veneer core hardwood panels.
- Requires only furniture polish or a quick dusting with a Riccar Microfiber Cloth to keep its rich finish.

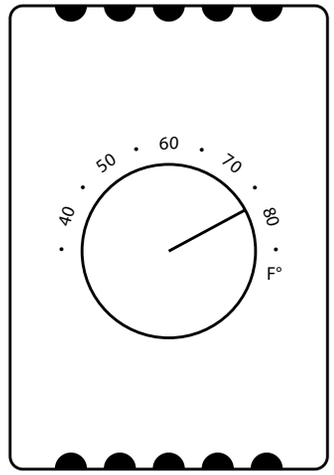




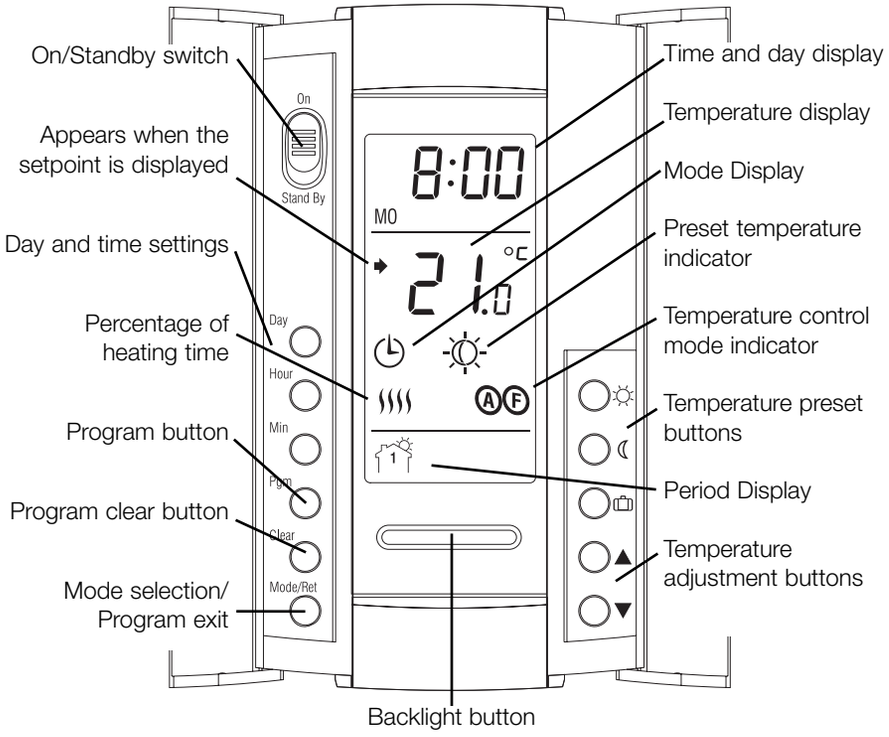
1	Power On Indicator Light
2	Front Grill (exhaust)
3	Caster Wheels
4	On/Off Switch
5	Circuit Breaker Button
6	Filter (intake)
7	Dial Temperature Control
8	Programmable Temperature Control



7 Dial Thermostat
RSBH-O, RSBH-C
and RSBH-SB Models



8 Programmable Thermostat
RSBHP-O and
RSBHP-C Models

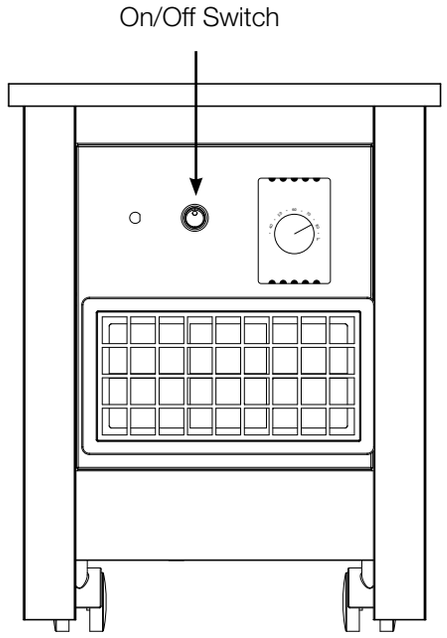


Unpacking Your SummerBreeze Zone Heater

- Cut open the taped edges, remove the protective packaging materials and lift heater from carton. Find a level location to place the unpackaged heater.
- Keep the packaging for off-season storage and any transporting needs.
- Plug the power cord directly into an unused, grounded 120 volt, 15 amps or higher circuit receptacle.

Turning the Power On
Dial Thermostat Models

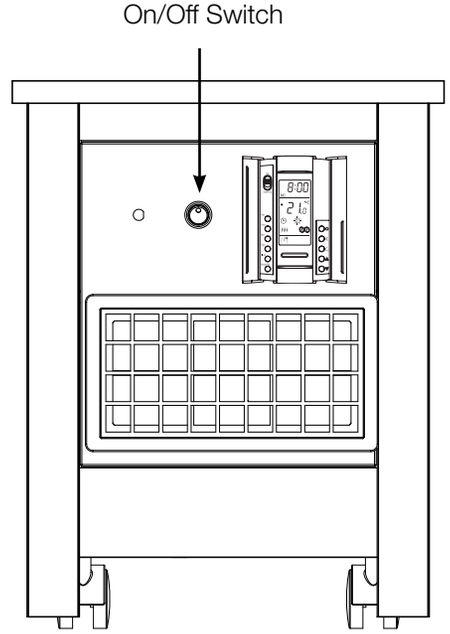
- Press the on/off switch to On. An amber light will display on the front of the unit indicating the heater is plugged into an electrical outlet and turned on.
- Turn the thermostat dial to set the desired temperature.
- If the thermostat is set above the room's temperature the heater fan will begin to operate after a few minutes.



Dial Thermostat

Turning the Power On
Programmable Thermostat Models

- Press the on/off switch on the back of the heater to On. An amber light will display on the front of the unit indicating the heater is plugged into an electrical outlet and turned on.
- Slide the on/standby switch on the thermostat to On. It is not necessary to ever set the thermostat to Standby because the master on/off switch on the heater controls the power to the heating element.
- Set the desired temperature using the up/down temperature adjustment buttons. See Setting the Temperature (page 10) for complete instructions.
- If the thermostat is set above the room's temperature the heater fan will begin to operate after a few minutes.



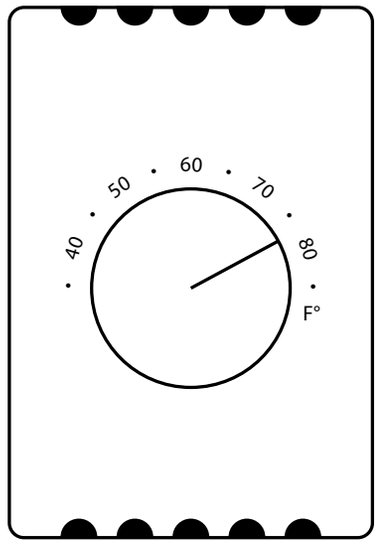
Programmable Thermostat

Turning the Power Off
All Models

- Press the on/off switch on the back of the heater to Off.

Setting the Temperature
Dial Thermostat Models

- Turn the dial to the desired temperature.
- If the room's temperature is below the temperature selected on the thermostat dial, the heater will turn on until the desired temperature is reached.
- If the room's temperature is above the temperature selected on the thermostat dial, the heater will not turn on. Once the room's temperature falls below the temperature selected on the thermostat dial, the heater will turn on.



Dial Thermostat

Setting the Temperature
Programmable Thermostat Models

The thermostat normally displays the room's actual (measured) temperature.

- To view the setpoint, press one of the up/down buttons once. The setpoint will appear for the next 5 seconds.
- To change the setpoint, press one of the up/down buttons until the desired temperature is displayed. To scroll faster, press and hold the button.

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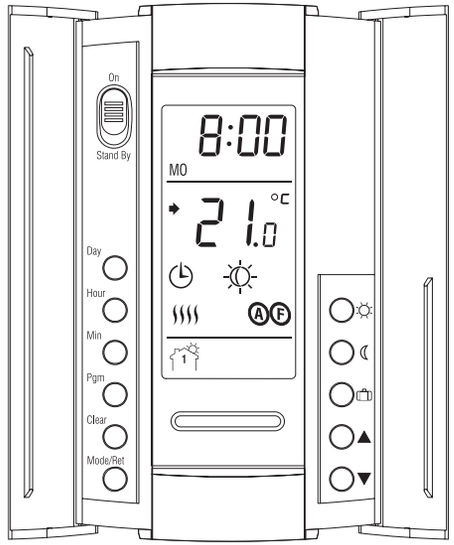
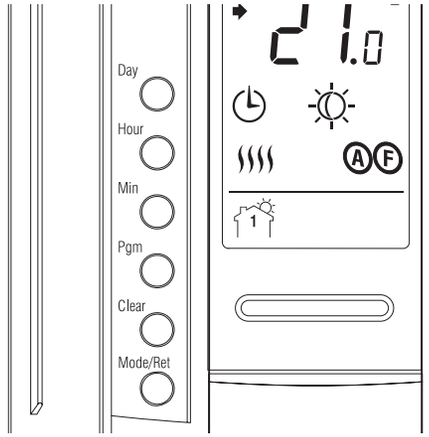


Programmable Thermostat

Setting the Clock and Day
Programmable Thermostat Models

- Press the Hour button to set the hour.
- Set the Min button to set the minutes.
- Set the Day button to set the day.
- Press Mode/Ret to exit.

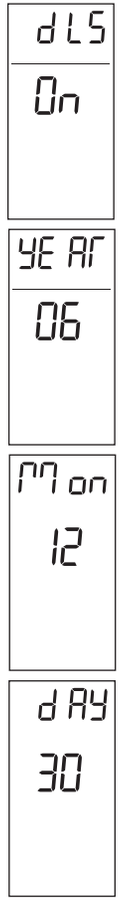


Daylight Savings Time

The thermostat can automatically re-adjust its clock at the Daylight Savings Time changeover. When this function is enabled (On), the thermostat switches to Daylight Savings Time on the second Sunday of March and to normal time on the first Sunday of November.

NOTE: The function is disabled (default setting) when the clock loses its setting.

- Press the Day button (3 seconds) until DLS appears on the screen.
- Press the up/down button to toggle between On (enabled) and Off (disabled).
- Press the Day button briefly. The year setting is displayed.
- Press the up/down button to set the current year.
- Press the Day button briefly. The month setting is displayed.
- Press the up/down button to set the current month.
- Press the Day button briefly. The date setting is displayed.
- Press the up/down button to set the current date.
- Press Mode/Ret to exit.



Backlight
Programmable Thermostat Models

The display illuminates for 12 seconds when the backlight button is pressed.

When either of the up/down buttons are pressed, the display also illuminates for 12 seconds. The setpoint temperature appears for 5 seconds, then the actual (measured) temperature is displayed.

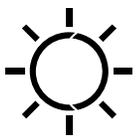
Temperature Adjustment
Programmable Thermostat Models

Setpoint Temperature

The thermostat has 3 preset temperatures:

- Comfort temperature
- Economy temperature
- Vacation temperature

To use a preset temperature, press the corresponding button. The corresponding icon will be displayed.



Comfort

Economy

Vacation

Preset Temperatures

To store a preset temperature:

- Set the desired temperature using the up/down buttons.
- Press and hold the corresponding button until the corresponding icon is displayed.

Modes of Operation
Programmable Thermostat Models

Automatic Mode

The thermostat follows the programmed schedule. To place the thermostat in this mode, press Mode/Ret until ◷ is displayed. The data of the current schedule period are also displayed.

Temporary Bypass

If you modify the setpoint temperature (by pressing the up/down arrows, ☼ or ☾ button) when the thermostat is in automatic mode, the new temperature will be used until the beginning of the next period. ◷ flashes during the bypass. You can cancel the bypass by pressing Mode/Ret.

Programmed Schedule

The schedule consists of 4 periods per day which represents a typical week day. You can program the thermostat to skip the periods that do not apply to your situation. For example, you can skip periods 2 and 3 for the weekend.

Period	Description	Associated temperature setting
	Wake-up	☼
	Away from home	☾
	Return home	☼
	Sleep	☾

The Comfort (☼) temperature is used in periods 1 and 3 and the Economy (☾) temperature is used in periods 2 and 4. For example,when the period changes from 1 to 2, the setpoint automatically changes from Comfort (☼) temperature to Economy (☾) temperature.

Programmed Schedule Continued

You can have a different program for each day of the week; i.e., each period can start at a different time for each day of the week. The thermostat has been programmed with the following schedule.

Period	Setting	MO	TU	WE	TH	FR	SA	SU
	☼	6:00	6:00	6:00	6:00	6:00	6:00	6:00
	☾	8:30	8:30	8:30	8:30	8:30	--:--	--:--
	☼	17:00	17:00	17:00	17:00	17:00	--:--	--:--
	☾	23:00	23:00	23:00	23:00	23:00	23:00	23:00

To modify the schedule:

- Press Pgm to access the programming mode. Period 1 is selected.
- Press Day to select the day to program (hold for 3 seconds to select the entire week).
- Press Hour and Min to set the start time of the selected period, or press Clear if you want to skip the period (--:-- is displayed). NOTE: If you intend to use only 2 periods, set periods “1 and 4” or periods “2 and 3”. Early Start will not work if you set periods “1 and 2” or periods “3 and 4” .
- Press Pgm to select another period, or press Day to select another day. Then repeat step 3.
- Press Mode/Ret to exit the programming mode.

NOTE: If no button is pressed for 60 seconds, the thermostat will automatically exit the programming mode.

Manual Mode

The programmed schedule is not used. The temperature must be set manually. To place the thermostat in this mode:

- Press Mode/Ret until is displayed.
- Set the temperature using the up/down, ☼ or ☾ button.

Vacation Mode

In this mode, the thermostat is set to Vacation temperature. To place the thermostat in Vacation mode:

- Press the button on the thermostat. When the Vacation mode is activated using the button, the icon appears on the screen without flashing.

Error Messages

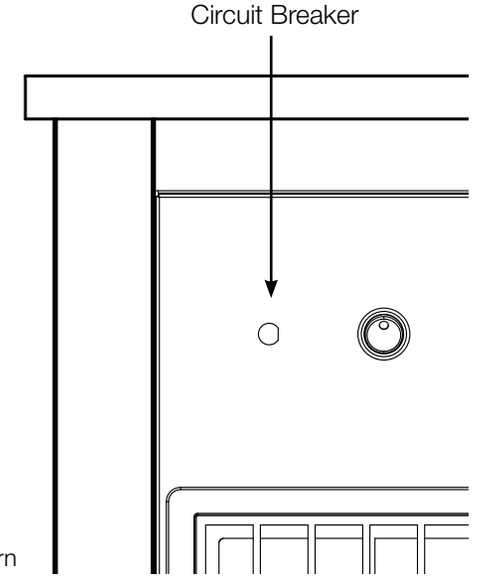
LO The measured temperature is below the thermostat’s display range. Heating is activated.

HI The measured temperature is above the thermostat’s display range. Heating is deactivated.

Er Verify the thermostat connection.

Resetting the Circuit Breaker

This feature is a safeguard to recognize when there is a potential electrical safety condition. The circuit breaker will “trip” or pop out and the heater will automatically power off if such a situation occurs.



- Press the on/off switch to Off.
- Unplug the power cord.
- Push the circuit breaker button to reset.
- Plug the power cord directly into an unused, grounded 120 volt, 15 amps or higher circuit receptacle.
- Press the on/off switch to On.
- If the circuit breaker trips a second time, return the heater to an Authorized Riccar Retailer.

Caring For Your SummerBreeze Zone Heater Cabinet

Clean the filter often for maximum performance (see filter maintenance, page 11). When necessary, wipe the cabinet clean with a soft cloth and/or furniture polish.

Storing Your SummerBreeze Zone Heater

When the heater is not being used for an extended period of time, follow these steps to extend the life and performance of the heater unit:

- Unplug the heater.
- Cover the heater to prevent dust from accumulating on or inside the unit.
- Store heater in a dry, low dust environment.

Note: Before resuming use of heater, ensure the filter and front grill are clean and clear of dust and dirt. Inspect the power cord to ensure no damage has compromised the integrity of the cord.

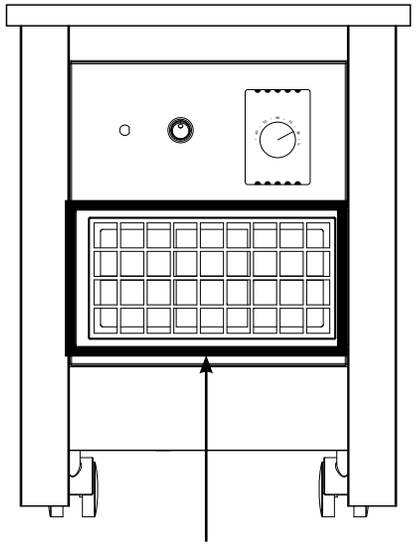
Suggestions for Best Performance

- Set your central heating system to a lower temperature. Place the zone heater in the area where you spend most of your time. Now set temperature on the zone heater to your comfort level.
- When heating larger areas, place the zone heater in a central location.
- Do not locate the zone heater in an area with a high air exchange rate. Heat produced should be contained in the room.
- Place the zone heater near a warmer inside wall and direct the output toward a cooler outside wall. The cooler outside wall will draw the generated heat toward it, which allows more efficient heating.
- Placing the zone heater next to a cold air return will draw the heat away from the area to be heated. Experiment with the placement of the heater to see what works best for you.
- If the zone heater is used in an extremely dirty or dusty area, the filter should be cleaned more often to maintain the heater performance (see Filter Maintenance, page 11).

Filter Maintenance

The only maintenance required for this zone heater is the periodic cleaning of the filter (located at the back of the unit). Vacuum or wash the filter at least once a month, or as dust becomes visible to ensure efficient operation of the heater.

- Turn the power off by pressing the on/off switch on the back of the heater to Off.
- Unplug the power cord from the electrical outlet.
- Remove the filter by gently pulling it straight out from the back of the heater.
- Clean the filter by vacuuming it until all dust and dirt is removed.
- Replace the filter by gently positioning it into the back of the heater.
- If filter is extremely dirty, run warm tap water over it until it is clean. Allow to dry completely, before replacing the filter back into the heater.
- Plug in the power cord and turn the power switch on the back of the heater to the on position.



Electrostatic Filter

Frequently Asked Questions

Q: I turned the heater on, but nothing is happening yet.

A: Make sure the heater temperature is set above your room's current temperature on the thermostat dial. After 2 minutes the air inside the heater will be warm and the heater fan will begin to operate.

Q: Why is the heater still running after I turned down the thermostat?

A: You will hear the heater fan running after you have turned the thermostat down. This allows the heater to cycle the remaining heat into the room and helps to cool down the heating element which protects the unit's components from overheating.

Q: Can I use the heater to heat multiple rooms at the same time?

A: The heating capability will depend on your floor plan, the insulation and the room size. Ceiling fans will help circulate heat. Placing the heater in a central location will also help move heat between rooms.

Q: Will my heater work in areas without insulation?

A: The heater will work in garages, basements and unfinished rooms. However, bear in mind the effectiveness of your heater depends on how well the area is sealed and insulated. As with any heater, the better the walls, floor and ceiling are sealed and insulated, the more effective the room will be heated.

Q: Can I use multiple heaters in an area?

A: Depending on the size of the area, you may wish to use multiple heaters. Multiple heaters may be used. Your heater is rated 12 amps so each heater must plug into an independent 15 amps or greater circuit.

Troubleshooting

Problem	Possible Solution
The zone heater's airflow has been reduced.	• Make sure the filter is clean. • Check the back intake for any objects that could obstruct airflow. • If the heater's airflow is still diminished or has stopped, contact your Riccar Authorized Retailer.
The zone heater stays on after I turn the thermostat down.	• This is a normal function of the heater. During this time, the heater is cycling the remaining heat into the room and is cooling the heating element down.
The zone heater will not turn on.	• Make sure the heater is plugged directly into an unused, grounded 120 volt, 15 amps or higher circuit receptacle. • Make sure the amber light displays on the front of the unit indicating the heater is plugged into an electrical outlet, turned on and is receiving power.
The circuit breaker button popped out.	• Make sure the heater temperature is set above your room's current temperature • Press the on/off switch to Off. • Unplug the power cord. • Push the circuit breaker button to reset. • Plug the power cord directly into an unused, grounded 120 volt, 15 amps or higher circuit receptacle. • Press the on/off switch to On. • If the circuit breaker trips a second time, return the heater to an Authorized Riccar Retailer.
The zone heater tipped over on its side and shut off, but the fan is still running.	• This is a normal safeguard function of the heater. Return the heater to its normal upright operating position and the power will resume.
The programmable thermostat doesn't light up.	• Slide the On/Standby switch to On.

Any other service should be done by an Authorized Service Representative.

Service 1-888-6-RICCAR

To locate your nearest retailer, visit our website at **www.riccar.com**

Warranty

Five Year Comprehensive Warranty & Ten Year Warranty on the Heating Element.

What is Covered:
This warranty covers any defects in material and workmanship in your new Riccar SummerBreeze Zone Heater.

How Long Coverage Lasts:
Warranty coverage for Riccar SummerBreeze Zone Heater models RSBH-O, RSBH-C, RSBH-SB, RSBHP-O AND RSBHP-C lasts five years. In addition, the heating element is warranted for 10 years.

What is Not Covered:
Damage to the heater which occurs from neglect, abuse, alterations, accident, misuse or improper maintenance.

What Riccar Will Do:
This warranty provides, at no cost to you, all labor and parts to keep this heater in correct operating condition during the warranted period.

How to Get Service:
Warranty service can only be obtained by presenting the heater to an Authorized Riccar Retailer. A proof-of-purchase and product serial number will be required before service is rendered. **To locate your nearest Riccar Retailer, please call 1-888-6-RICCAR or visit the Riccar website at www.riccar.com.**

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL, EXPRESSED OR IMPLIED, (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). THIS WARRANTY DISCLAIMS LIABILITY FOR INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

How State Law Applies:
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Register your warranty on-line at **www.riccar.com**

Owner's Warranty Information

keep this for your records…

Date of purchase _____

Serial number _____

Model number _____

Purchased from:

Store name _____

Address _____

City, State, Zip _____

Telephone _____

RICCAR®

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